Figure S 1  Network models and their collapsed versions. The collapsed networks (bottom panels) represent simplified versions of the true networks (top panels), where nodes other than $Q$, $Y_1$ and $Y_2$ are ignored, even though they still represent the correct causal flow among these three nodes in the true network. Consider, for example, network $c$ and its collapsed version $c'$. The path $Q \rightarrow Y_3 \rightarrow Y_1$ in $c$ is collapsed to $Q \rightarrow Y_1$ in $c'$. The paths $Y_1 \rightarrow Y_5 \rightarrow Y_2$ and $Y_1 \rightarrow Y_6 \rightarrow Y_2$ in $c$ are collapsed to $Y_1 \rightarrow Y_2$ in $c'$. The path $Q \rightarrow Y_3 \rightarrow Y_4 \rightarrow Y_7 \rightarrow Y_2$ in $c$ is collapsed to $Q \rightarrow Y_2$ in $c'$. 

2 SI  E. Chaibub Neto et al.